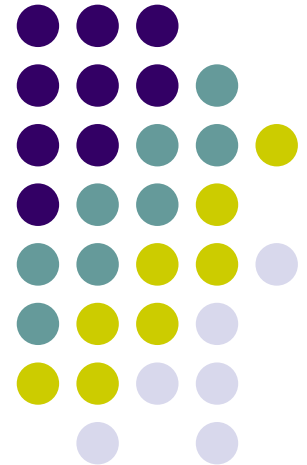
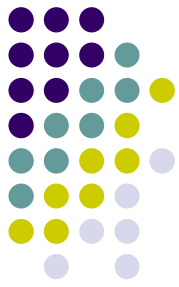


ANACONDA SMELTER NPL SITE

Anaconda – Deer Lodge County, Montana
Linda Bouck, Anaconda – Deer Lodge County
Catherine LeCours, State of Montana

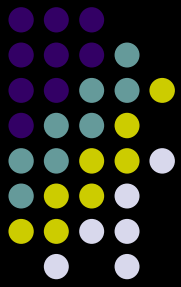


Site History

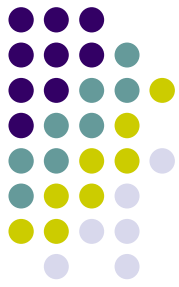


- Anaconda Copper Company operated mine and smelter from late 1800's to 1980
- Single industrial and major property stakeholder in community

That was then...

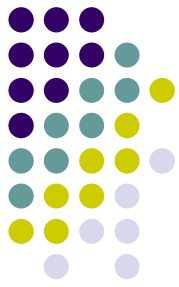


Current Status



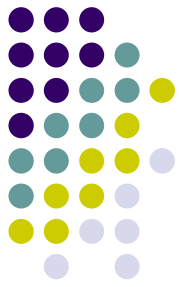
- Contamination deposition from:
 - Aerial emissions
 - 100 year flood event
 - Waste and tailings piles
 - Human movement of contaminated soil
- 300 square miles of impacted soil, indoor dust, and water
- Heavy metal contamination, primarily lead and arsenic

This is now...



Thank you E² Inc for the photo.

Pre-Superfund Designation



- Atlantic Richfield (AR) purchased Copper Company in 1977, primary responsible party
- Smelter closed 1980
- Placed on NPL September 1983
- Widespread human and ecological health risks
- Community recognized preliminary actions not compatible with future vision and asked for more

Superfund Designation



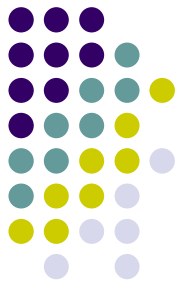
- Prior to EPA Order, AR activities included:
 - Purchased property and relocated several residences
 - Demolished and buried on-site main processing structures
 - Fencing and signage
- Emergency response relocated the community of Mill Creek in 1988
- Currently 7 Operable Units and 5 Records of Decision

Atlantic Richfield

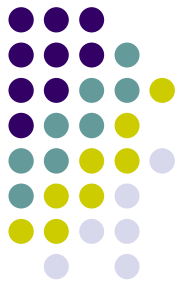


- Very active and strong presence in community
- On-going remediation
- Effective and timely communication with county and public
- Provide limited funding to County
- Need to work from same maps/covenants
- Need to use consistent language/terminology for public understanding

Development Permit System



- AR funded County-wide Permit System and Growth Policy
- AR continues limited funding for county resources
- In place since 1992
- Simple application combined with building permits (One-Stop Permitting)
- Permit System include:
 - Deed restrictions
 - Excavation permits
 - Well sampling
 - Soil sampling
 - Zoning



Deed Restrictions

Notifies purchasers of Superfund designation and development permit requirements

- **What works well:**
 - Effective notification for prospective purchasers
 - General education/initial introduction to Superfund
 - High compliance rate
- **Keys to success:**
 - GIS system to track properties
 - Clear, consistent, and detailed maps of Superfund overlay
 - County-wide staff (not just Planning Dept) education and training
 - Ability to “de-list” individual properties

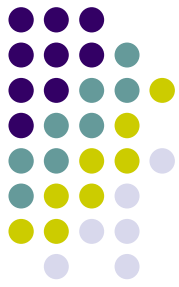


Excavation Permits

Informs land owners of best management practices for contaminated soil

- **What works well:**
 - Education controls movement of contaminated soils
 - High compliance rate
 - Empowers property owners to protect themselves
 - Ensures protection of remedy
- **Keys to success:**
 - GIS system to track properties

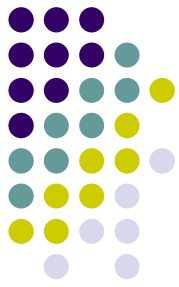
Soil Sampling



Provides initial property-specific concentrations to make development decisions

- **What works well:**
 - Control of contaminated soils
 - Not relying on site-wide generalizations
 - Provides detailed information to property owners regarding land use
 - Local waste repository
- **Keys to success:**
 - GIS system to track properties
 - Consistent soil sampling techniques
 - Constant and concise communication with responsible party, i.e., reclamation, data results

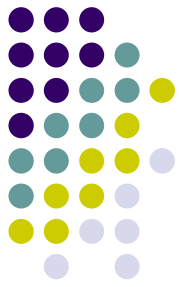
Zoning



Ensures appropriate land use for the remediation

- **What works well:**
 - Protects community from contaminated development
 - Allows flexibility in remediation for future land use
 - Effective educational tool for public
- **Keys to success:**
 - GIS system to track properties
 - Clear, consistent, and detailed maps of Superfund overlay
 - County-wide staff (not just Planning Dept) education and training
 - Constant communication with AR and restrictive covenants

Well Sampling



Intended to provide well water information to public

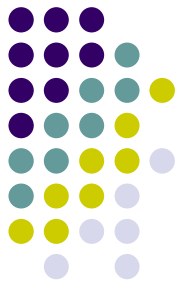
- **What works well:**

- Good concept
- AR tracks well permits, sample, and remediate as needed
- AR provides data to county

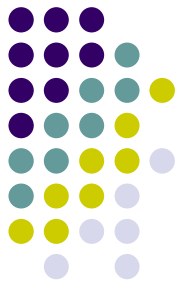
- **Keys to success:**

- Educate well drillers
- State-wide permit system to assist tracking
- GIS system to track properties

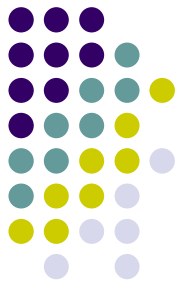
Before and After...



Golf Course



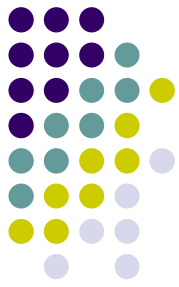
Additional Information



Linda Bouck
Anaconda-Deer Lodge
County
800 S Main
Anaconda MT 59711
(406) 563-4010
plandept@in-tch.com

Catherine LeCours
Montana DEQ
PO Box 200901
Helena MT 59620
(406) 841-5040
clecours@mt.gov

Even More Information



- <http://www.epa.gov/region8/superfund/sites/mt/Anaconda/anacondahome.html>
- <http://www.anacondamt.org>
- *Anaconda Montana : Copper Smelting Boomtown on the Western Frontier*, by Patrick F. Morris
- <http://www.oldworks.org> (golf course)



Anaconda & Area Activities